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1. **Abdul-Aziz, A.**, Abumeri, G., Bhatt, R.T., Grady, J.E., and Zhu, D., "Environmental Barrier Coating (EBC) Durability Modeling Using a Progressive Failure Analysis Approach Part II"; SPIE Smart materials and NDE symposium, March 2013, San Diego, California.
2. **Abdul-Aziz, A., Roth, D. J.**, Cotton, R., Studor, G.F., Christiansen, E., and Young, P.C., "Composite Material Characterization using Microfocus X-ray Computed Tomography Image-based Finite Element Modeling", Materials Evaluation, pp. 167-174, Volume 71, No.2, February 2013
3. **Abdul-Aziz, A., Roth, D. J.**, Cotton, R., Studor, G.F., Christiansen, E., and Young, P.C., "Material Characterization and Geometric Segmentation of a Composite Structure Using Microfocus X-Ray Computed Tomography Image-Based Finite Element Modeling", accepted for publication in Materials Evaluation, February 2013.
4. **Abdul-Aziz, A., Woike, M. R.**, and **Clem, M. M.**, and **Baaklini, G. Y.**, "Turbine-engine rotor health monitoring and durability evaluation using spin tests data," SPIE-8693-24, 2013.
5. **Adamovsky, G., and Wrbanek S. Y.**, "Coupling of low-order LP modes propagating in cylindrical waveguides into whispering gallery modes in microspheres," Optics Express 21 (2), pp. 2279-2286 (2013); <http://www.opticsinfobase.org/oe/abstract.cfm?uri=oe-21-2-2279>. (Jan 2013)
6. **Baaklini, G. Y.**, "Optical Instrumentation and Nondestructive Evaluation Branch Research and Technology Advances at NASA Glenn Research Center since 1941," Journal of Aerospace Engineering, Vol. 26, No. 2 April 2013, pp395-408.
7. Banks, C., Madaras, E.I., Nichols, C.T., Richards, L., **Roth, D. J.**, Russell, R.W., Saulsberry, R.L., and Waller, J.M., "Smart Composite Overwrapped Pressure Vessels," Composite Conference 2012, August 13-17, 2012, Las Cruces, NM.
8. **Clem, M. M.**, **Fagan, A. F.**, Brown, C., "Background Oriented Schlieren Implementation in a Jet-Surface Interaction Test," to be presented at 51st AIAA Aerospace Sciences Meeting, Grapevine, TX, Jan 2013.
9. **Clem, M. M.**, **Woike, M. R.**, and **Abdul-Aziz, A.**, "Investigation of a cross-correlation based optical strain measurement technique for detecting radial growth on a rotating disk," SPIE-8693-25, 2013.
10. **Eldridge, J. I.**, "Seedling Phase I Summary," to NARI "virtual" symposium, 2012
11. **Fagan, A. F.**, Clem, M.M., Zaman, KBMQ, and Elam, K.A., "Application of Spectroscopic Doppler Velocimetry for Measurement of Streamwise Vorticity," **AIAA-2013-0041**, 2013; Grapevine, TX, Jan 2013.

12. Foster, J., **Adamovsky, G.**, Sommers, B.S., Gucker, S.N., and Blankson, I.M., “A Comparative Study of the Time-Resolved Decomposition of Methylene Blue Dye Under the Action of a Nanosecond Repetitively Pulsed DBD Plasma Jet Using Liquid Chromatography and Spectrophotometry” IEEE Transactions on Plasma Science, 41 (30), pp. 503-512 (March 2013);
<http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=6472083&tag=1>
13. **Greer, L. C., Krasowski, M. J., Prokop, N. F., Spina, D. C.**, “Cratos: The Evolution of a Robotic Vehicle,” NASA/TM-216491, February 2013.
14. Hunter, G., Ross, R., Berger, D., **Lekki, J. D.**, Mah, R., Perey, D., Schuet, S., Simon, D., Smith, S., “A concept of Operations for An Integrated Vehicle Health Assurance System”, NASA/TM-2013-217825, March 2-13.
15. Kleinhenz, J., **Greer, L. C.**, and T. John, “Vibrational Locomotion Enabling Subsurface Exploration of Unconsolidated Regolith,” 2012 CIF Final Report
16. **Lekki, J. D.** contributed to [Presented by the United States, “Update on Research Testing of Volcanic-Ash Ingestion into an Aircraft Turbine Engine”, International Civil Aviation Organization, International Airways Volcano Watch Operations Group (IAVWOPSG), seventh meeting, Bangkok, Thailand, 18 to 22 March 2013.]
17. **Lekki, J. D.**, CERES final report: This final report for the Phase I Clouds and Earth’s Radiant Energy System (CERES) bolometer follow-on study summarizes the project activities up until 10/1/2012. First draft completed
18. **Lekki, J. D.**, Lyall, E., Guffanti, M., Fisher, J., Erlund, B., Clarkson, R., van de Wall, A., “Multi-Partner Experiment to Test Volcanic-Ash Ingestion by a Jet Engine”, Presentation at the World Meteorological Organizations Vocanic Ash Workshop, Citeko, Indonesia, March 2013.
19. **Roth, D. J.**, “Acoustic Emission Analysis Applet Software Manual,” v1.0, draft (software and manual sent to JSC/WSTF). 11/15/ 2012.
20. **Roth, D. J.**, “Cylinder CT Unwrapper/Reslicer Software v2” Overview, Manual, and Class E Compliance Documents. April 2012 – January 2013. Software approved for release January 2013.
21. **Roth, D. J.**, “Cylinder CT Unwrapper/Reslicer Software” Overview, Manual, and Class E Compliance Documents. Oct 2011 – April 2012. Software approved for release May 2012.
22. **Roth, D. J.**, and **Rauser, R. W.**, “Procedure for X-ray Computed Tomography of ASC Heater Heads,” final draft, April 2012.
23. **Wernet, M. P.**, and **Clayo, G. G.**, “SDB36J Electromechanical Shutter Drive Manual.”
24. **Woike, M. R., Abdul-Aziz, A.**, “Health Monitoring, and Flaw Detection System development for Turbine Engine Rotating Components,” accepted for publication in Materials Evaluation, to appear in 2013.
25. Zaman, K.B.M.Q., **Clem, M. M.**, and **Fagan, A. F.**, “Noise from a jet discharged into a duct and its suppression,” *submitted to International Journal of Aeroacoustics*, accepted for publication on 2/18/2013.